

FROM SELL-IN TO SELL-OUT

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PRESENT: BUILDING ON SUCCESS 2017

**BREAKTHROUGH RESULTS
FOR GOVERNMENT AND
BUSINESS**

Orthodoxy

- Orthodoxy is everything we do, we don't know why we do, but we keep doing it
- Orthodoxies are related to technology constraints



Most of the current business rules were created under a technology constraint



Once the constraint was removed, the business rules remained the same

Orthodoxy

CHECK-IN
12H



Hotel

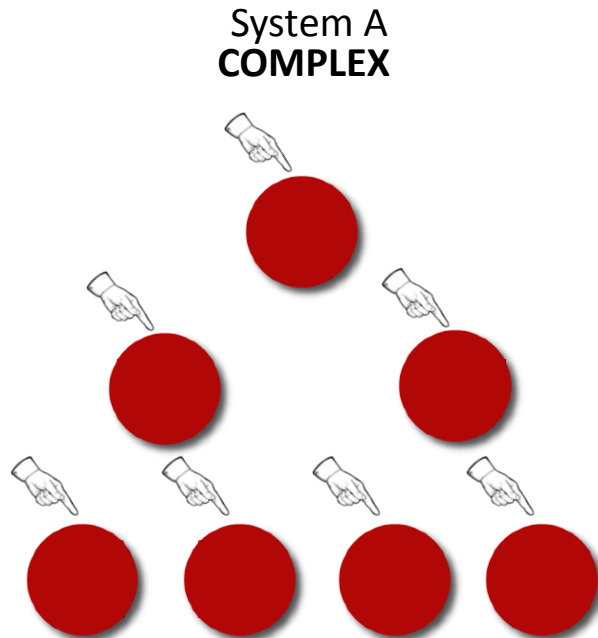
?

CHECK-OUT
12H

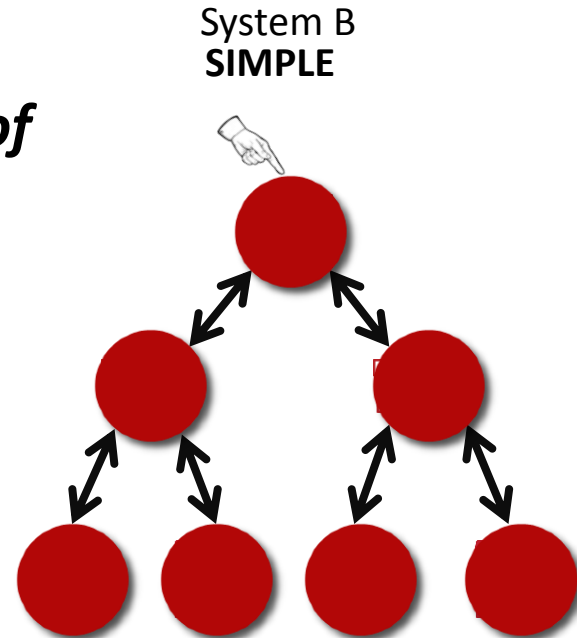


Simple System or Complex System

Which is the most complex system?



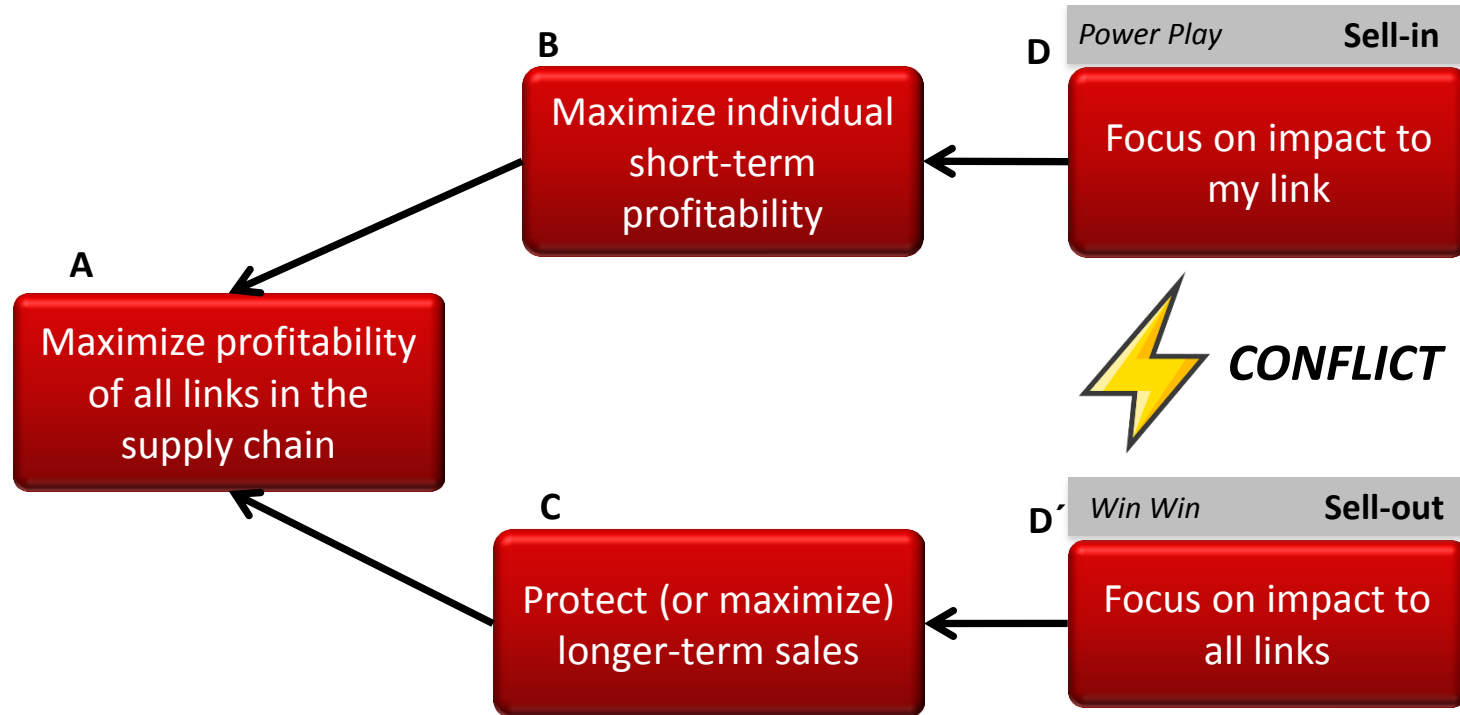
*Degrees of
freedom*



Conflict in the Supply Chain



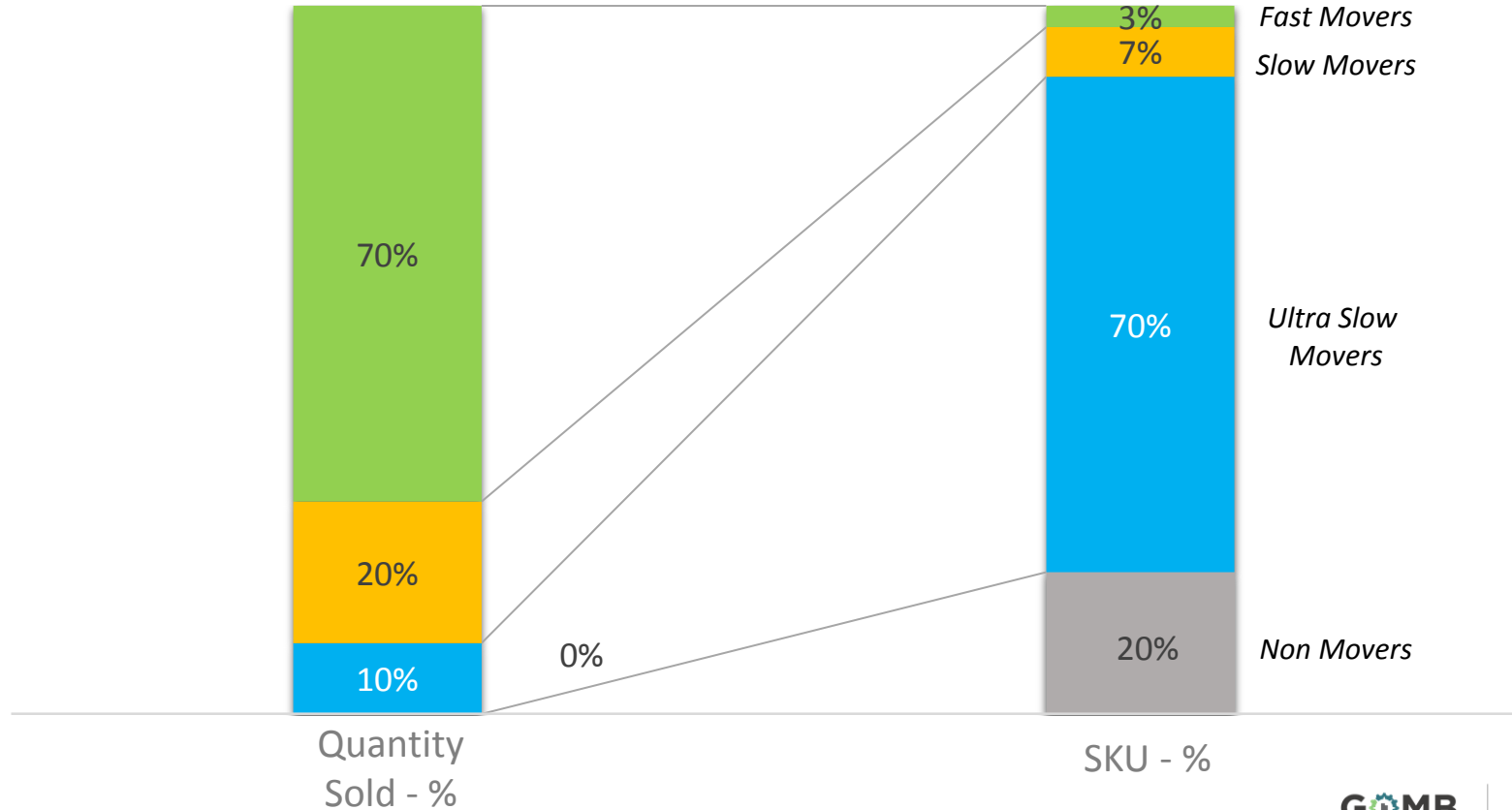
Conflict in the Supply Chain



Until the end-consumer buys, nobody sold



Quantity Sold X SKUs



Case Study - Activity Level

5 Stores - Period: 01/01/2017 to 04/30/2017

Activity Level	%SKUs	SKUs Qty.	Sales (\$)	Inventory (\$)	Inventory Turns	Margin (\$)	Return on Inventory	Out-of-stock	On Shelf Availability
Fast Movers	3%	1.427	38.581.484	9.490.213	39	7.512.223	79%	3,38%	93,97%
Slow Movers	7%	3.928	20.580.704	10.311.874	15	7.335.075	71%	5,88%	93,67%
Ultra Slow Movers	70%	36.947	29.775.852	39.390.484	6	10.174.844	26%	9,96%	94,27%
Non Movers	20%	10.680	0	18.052.874	0	0			
TOTAL	100%	52.982	88.938.039	77.245.445	10	25.022.142	32%	9,36%	94,20%

Solving the Conflict

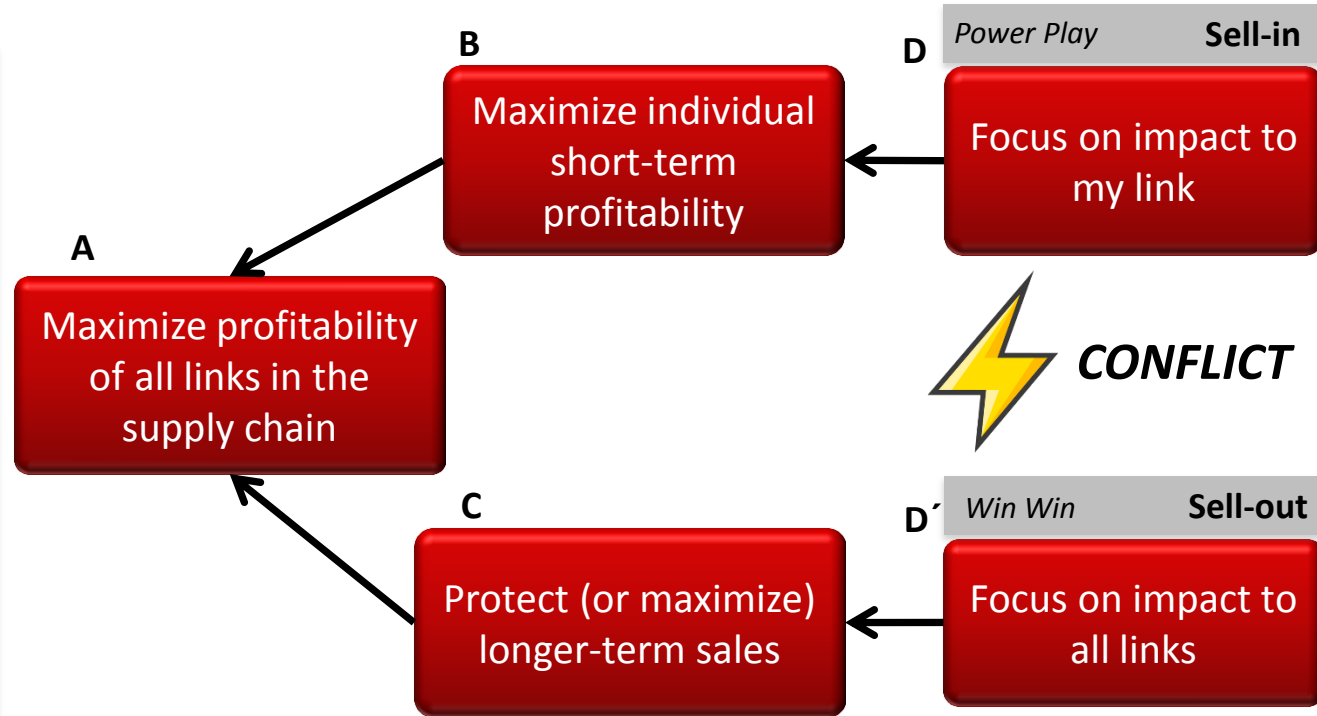


Conflict in the Supply Chain

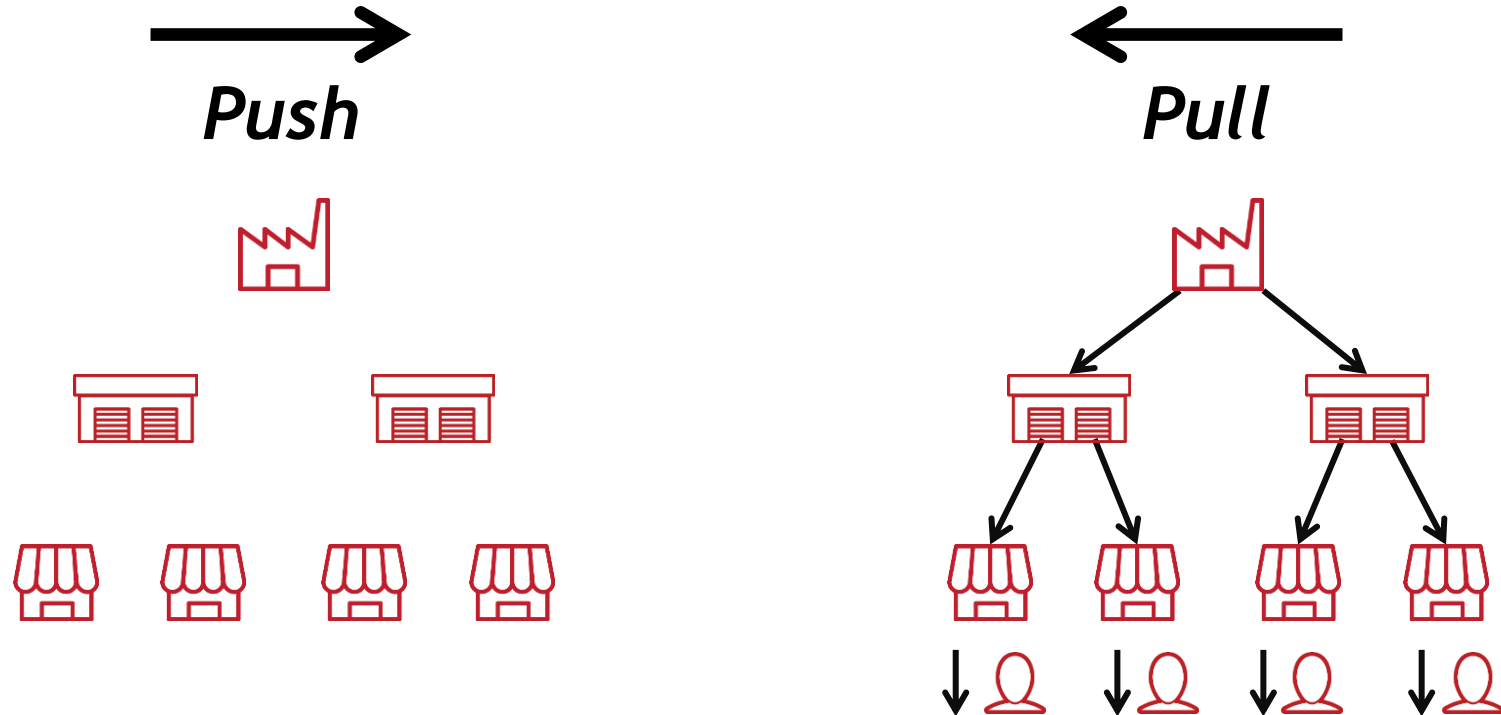
Direction for eliminating the conflict:

Focus on the impact to next link

- Which, when the whole chain is synchronized to actual end consumer demand, is the same as focusing on both individual and all links
- Today, we can accomplish this with technology

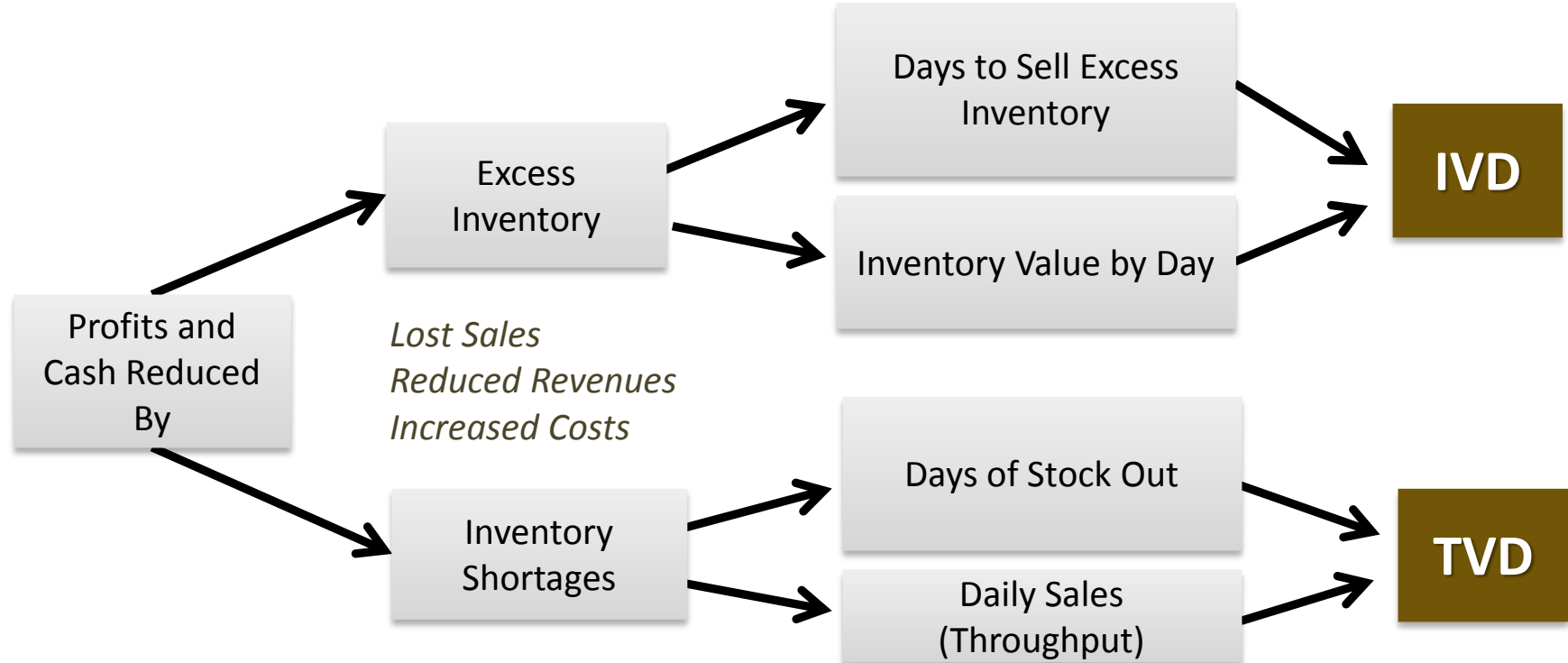


Concept

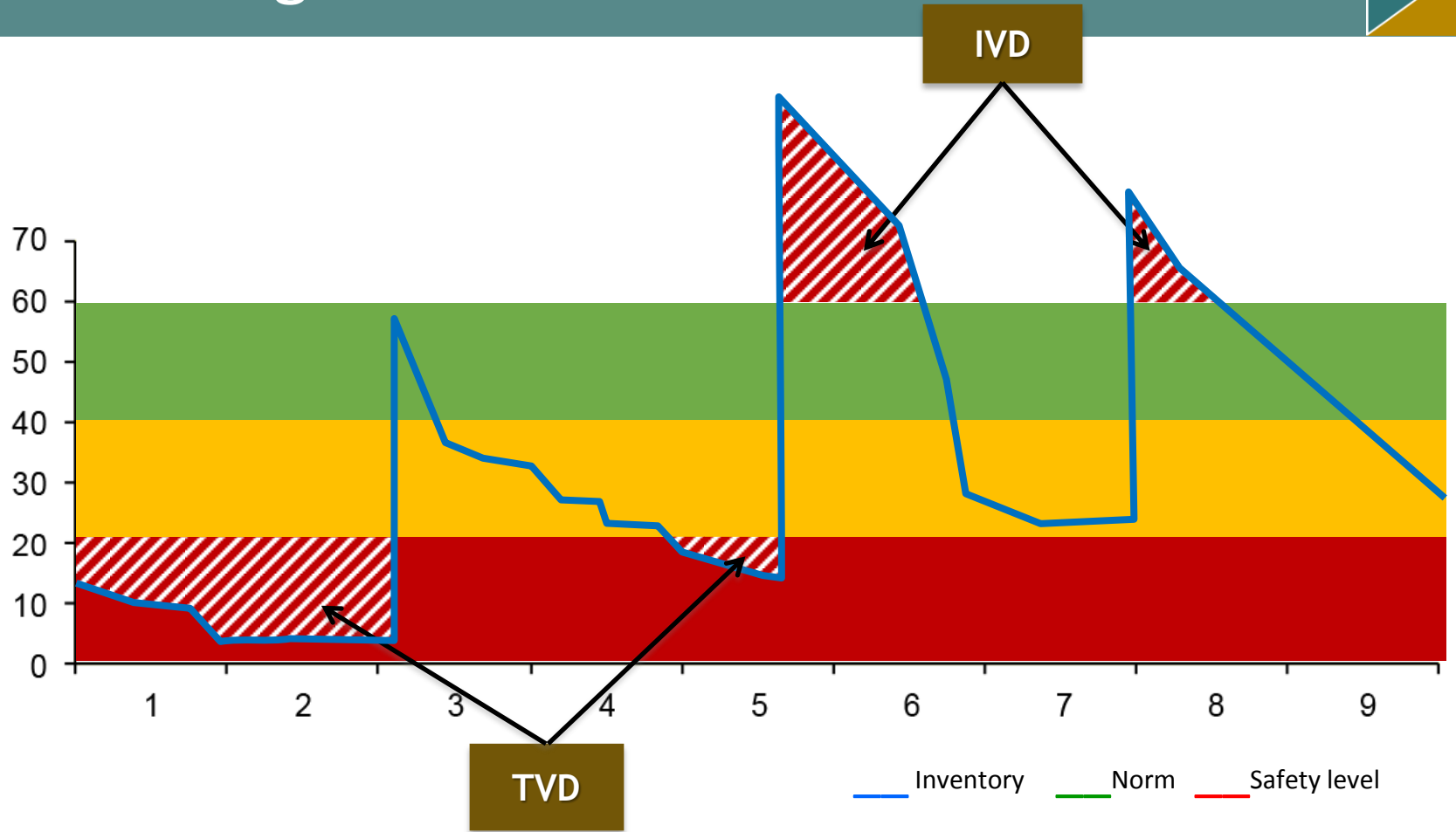


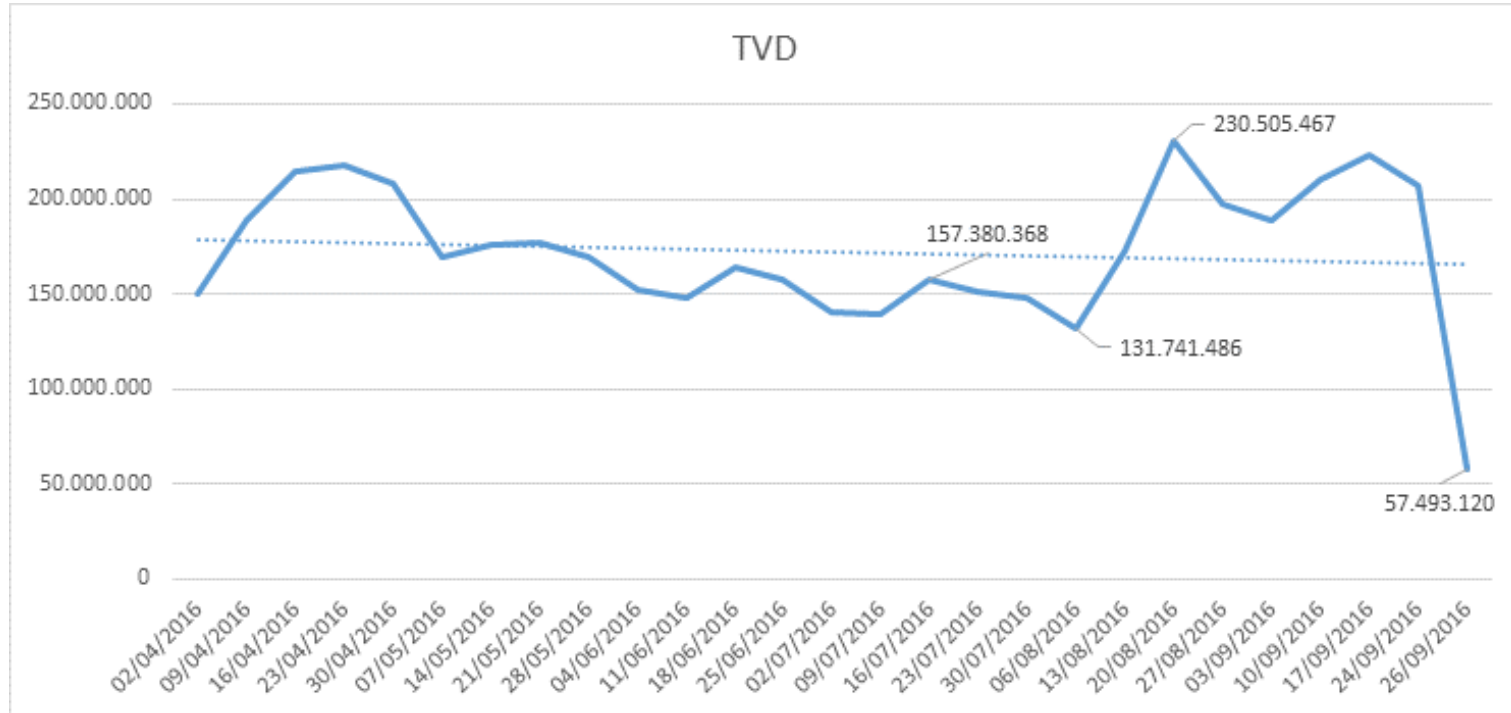
Focus on impact to my link

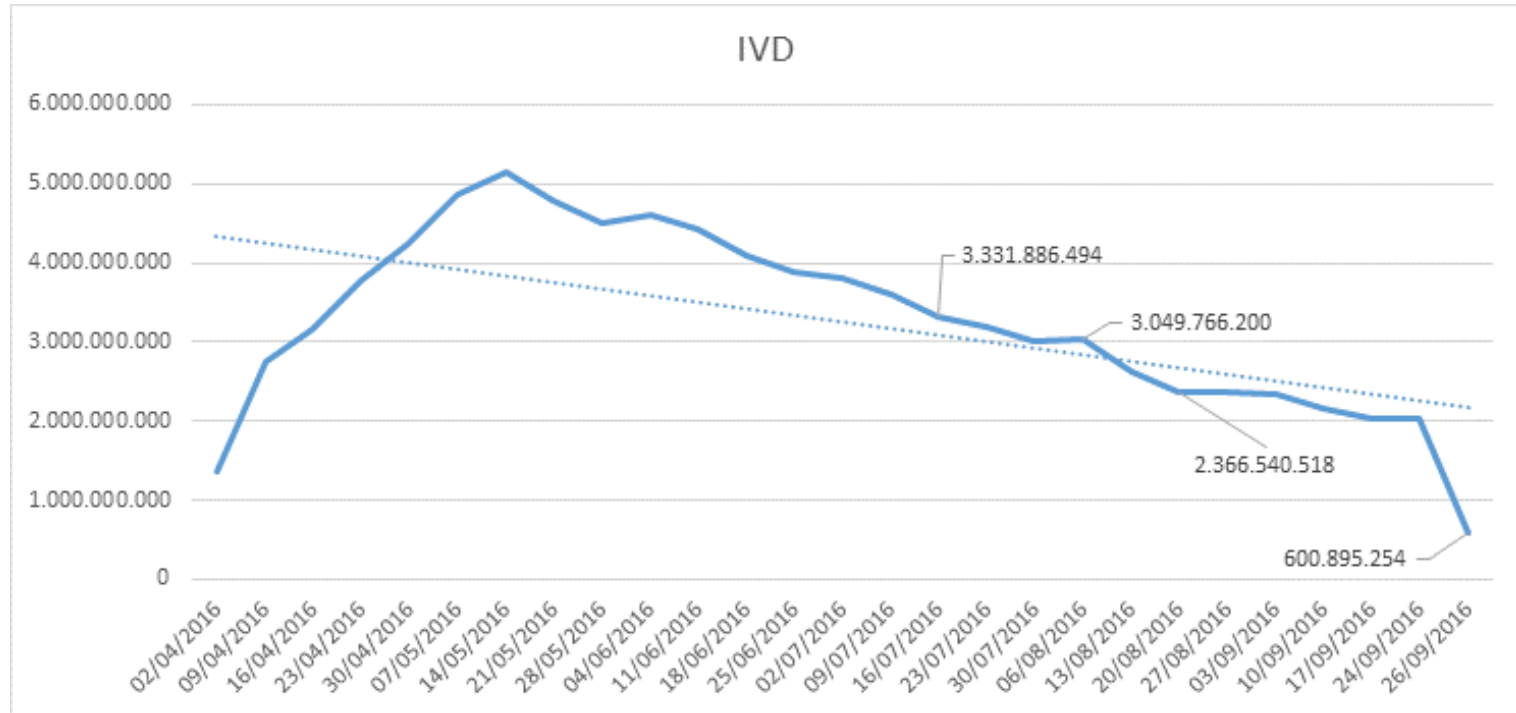
Information to
guide right actions



Illustrating TVD and IVD

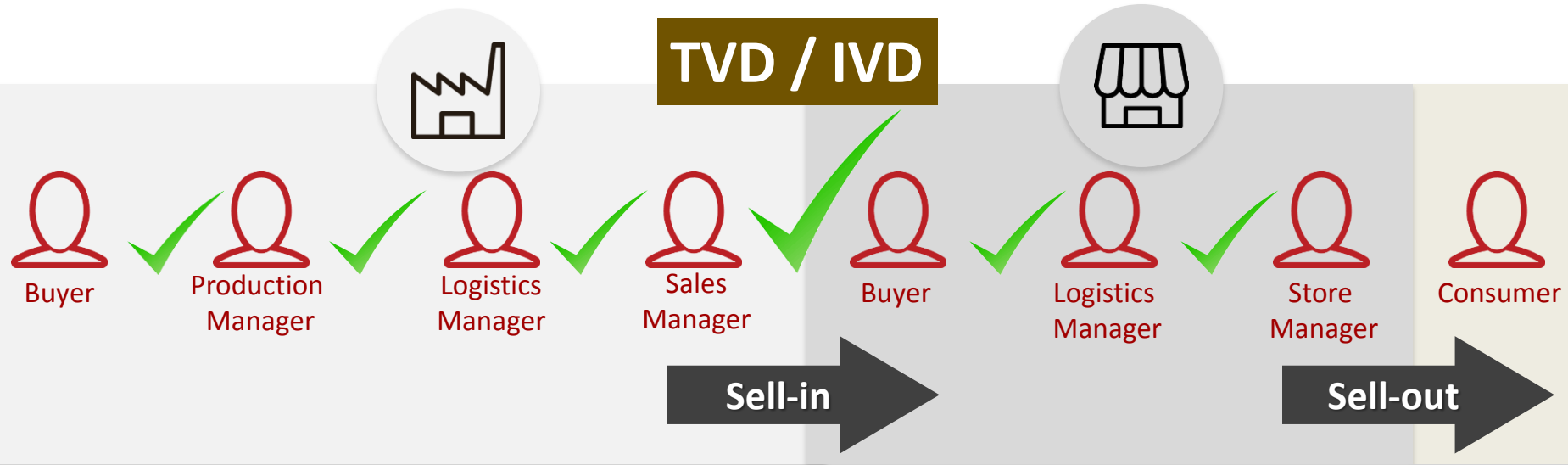






Focus on impact
in all links

Information to
guide right actions



Breaking the Orthodoxies

Changing Company Rules



Focus on impact
in all links



Share Sell-Out
Data

Orthodoxy

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Most of the current business rules were created under a technology constraint



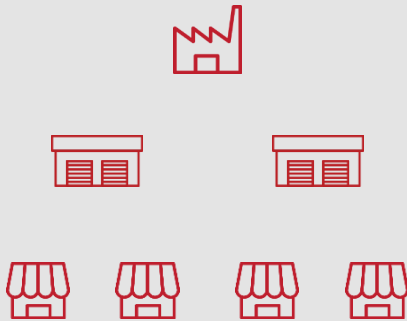
Once the constraint was removed, the business rules remained the same

Inventory Location

Sell-In

Orthodoxy

- Hold as much as possible at the stores (points of sales)
- Warehouses used as cross-docking locations rather than stocking locations



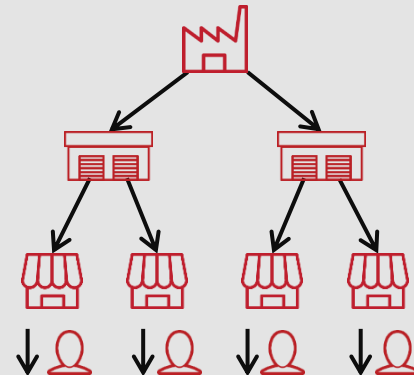
Orthodoxy fueled by

- Inventory measures (balance sheet)
- Who "owns" the inventory?

Sell-Out

Leveraging Technology

- Hold only enough at the store to sell during the short replenishment time from the closest warehouse
- Warehouses used as aggregation points for fast, flexible replenishment

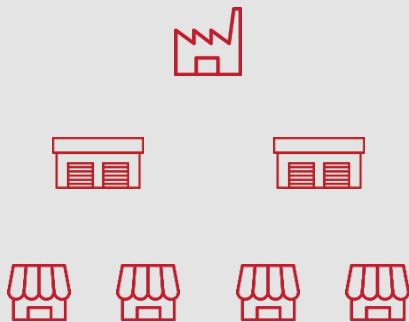


Orders/Replenishment

Sell-In

Orthodoxy

- Large orders placed relatively infrequently
- Quantity discounts and due dates per order
- Shipments according to order due dates
- Invoices & payments per shipment



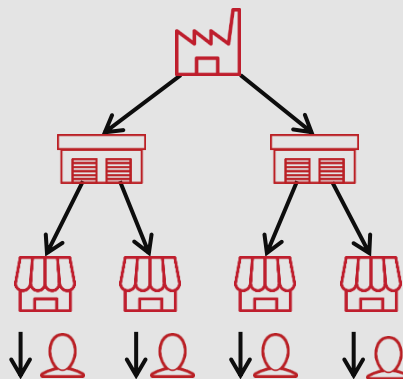
Orthodoxy fueled by

- Purchasing measures
- Purchase price variance
- “Economic Order Quantities”
- Sales measures
- Structures for commissions & bonuses

Sell-Out

Leveraging Technology

- Contracts based on unit prices
- Discounts based on aggregated (estimated) volumes
- Automated replenishment triggered by actual consumption
- Payment terms according to average inventory

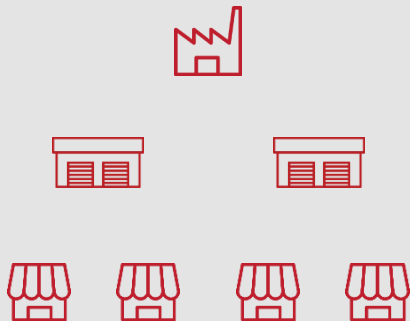


Selling

Sell-In

Orthodoxy

- Push for more big orders
- Price discounts based on large volume orders



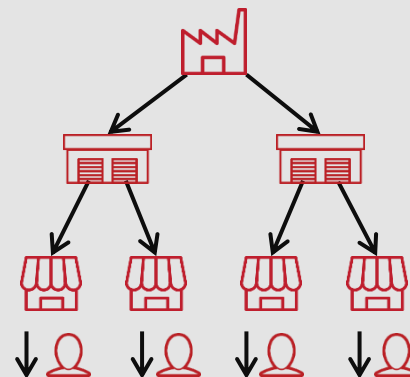
Orthodoxy fueled by

- Sales measures
 - Structures for commissions and bonuses

Sell-Out

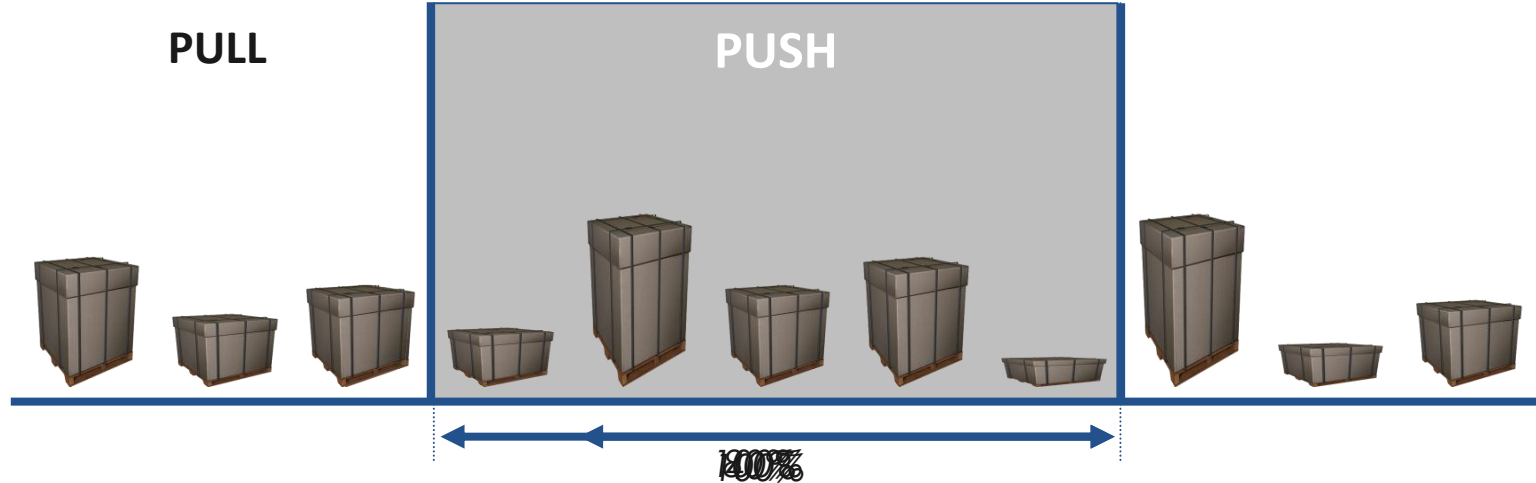
Leveraging Technology

- Share sell-out data
- Offer to take back non-movers and slow movers, and replace with fast movers
- Discounts based on aggregated (estimated) volumes



Sharing Sell-Out Data

Gives the Seller a Competitive Advantage



EXPLOITING SHELF SPACE

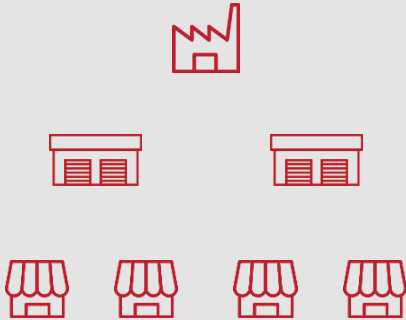
- *Improving replenishment frequency*
- *Reduce inventories and out of stock*
- *Replacing slow movers SKUs by fast movers SKUs*

Production

Sell-In

Orthodoxy

- Large batches, produced relatively infrequently
- Demand periodically aggregated into fewer orders
- “Economic production order quantities”
- Strive for “as long lead time as we can get”



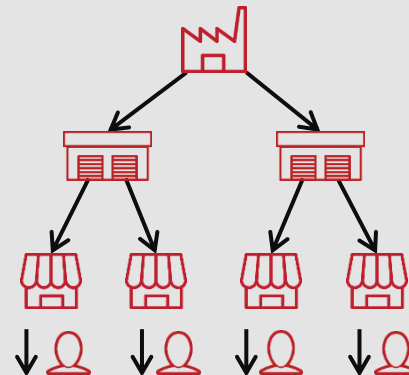
Orthodoxy fueled by

- Production measures
 - Efficiency and utilization
 - Product cost assumptions

Sell-Out

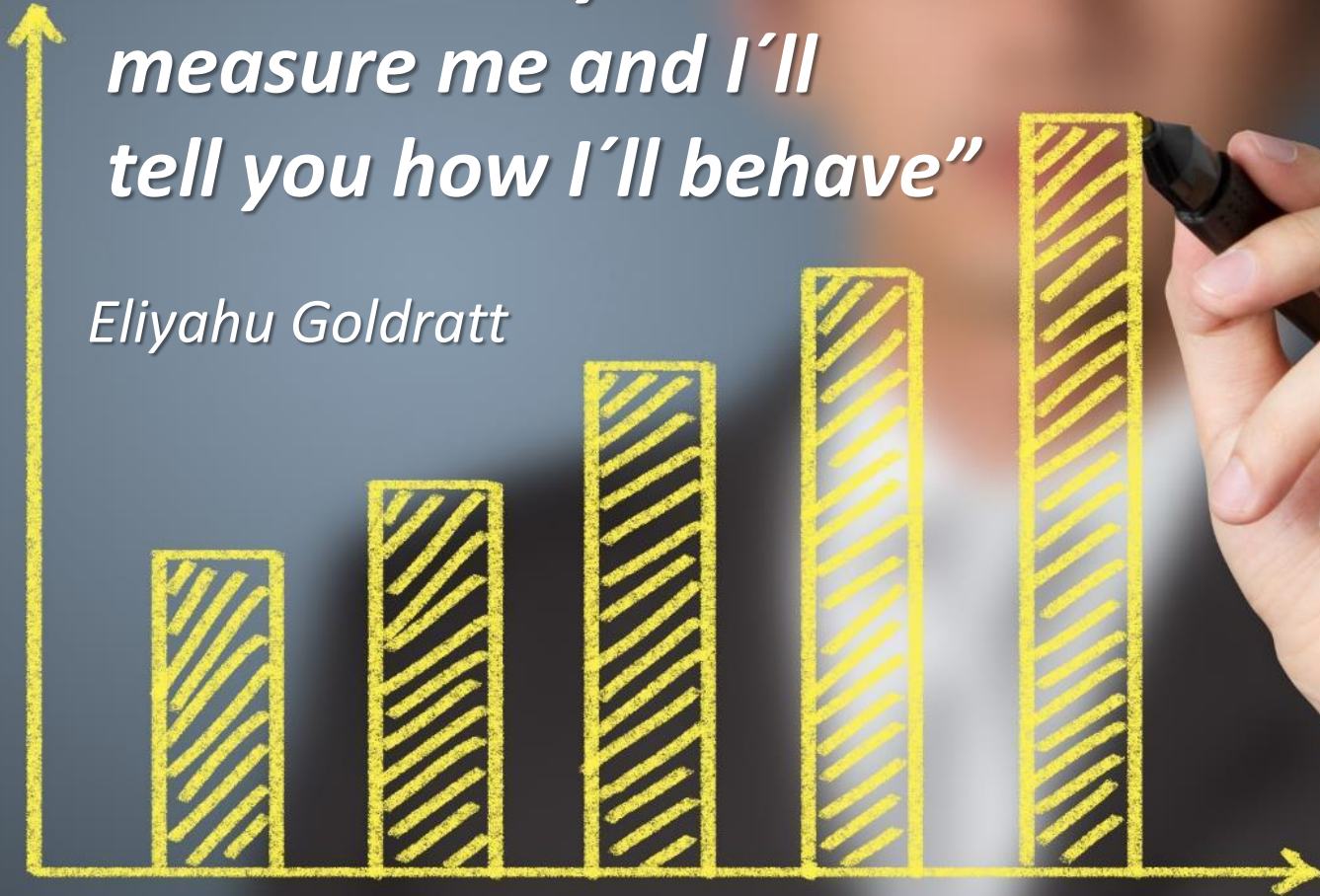
Leveraging Technology

- Produce only what was consumed
 - Orders created daily according to what was consumed day before
 - Produce frequently, aggregating orders according to agreed aggregation guidelines
- Strive for short(er and shorter) lead times



***“Tell me how you
measure me and I’ll
tell you how I’ll behave”***

Eliyahu Goldratt



Retailer View | Category: Coffee | Retail A

Activity Level	Manufacturers	SKU	%SKUs	SKUs Qty	Sales (R\$)	Inventory (R\$)	Turns	Margin (R\$)	Margin/Average Inventory	Out-of-stock	OSA
⊖ Fast Movers	⊕ Manufacturer A		8,20%	10	363.678	141.796	31	47.436	33,4%	12,6%	90,2%
	⊕ Manufacturer B		9,02%	11	258.727	114.750	27	33.747	29,4%	5,5%	91,2%
	⊕ Manufacturer C		9,02%	11	384.961	228.224	20	50.212	22,0%	0,5%	95,2%
Total Fast Movers			26,23%	32	1.007.367	484.771	25	131.395	27,1%	6,0%	92,3%
⊕ Slow Movers			28,69%	35	294.316	249.321	14	38.389	15,4%	11,8%	92,1%
⊕ Ultra Slow Movers			38,52%	47	164.483	311.610	6	21.454	6,8%	15,4%	96,3%
⊕ Non Movers			6,56%	8	-	130.117	0	-	-	-	-
TOTL			100%	122	1.466.167	1.175.820	17	191.239	18,29%	12,0%	92,6%

Market Benchmark

Manufacturers		Turns		Out-of-stock	OSA
Manufacturer D		30		9,9%	93,7%
Manufacturer E		25		5,0%	92,6%
Manufacturer F		22		1,0%	83,2%
TOTAL		25		4,7%	91,7%

Manufacturer View | Category: Milk Modifiers

Manufacturer A

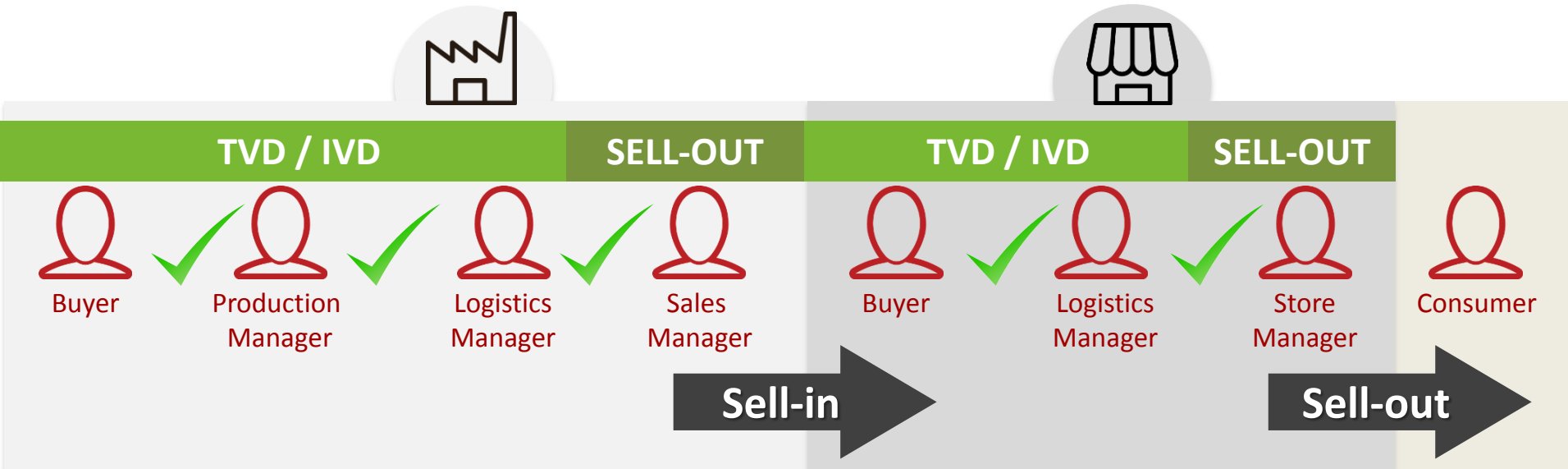
Activity Level	Retail	SKU	%SKUs	SKUs Qty	Sales (R\$)	Inventory (R\$)	Turns	Margin (R\$)	Margin/Average Inventory	Out-of-stock	OSA
⊖ Fast Movers	⊕ Retail 1		5,00%	2	222.449	347.750	8	29.015	8,3%	1,5%	81,5%
	⊕ Retail 2		7,50%	3	329.120	173.148	23	4.680	2,7%	3,7%	92,0%
Total Fast Movers			12,50%	5	551.569	520.897	13	33.695	6,4%	2,4%	86,5%
⊕ Slow Movers			12,50%	5	114.042	186.422	7	22.682	12,1%	3,3%	83,2%
⊕ Ultra Slow Movers			45,00%	18	42.360	137.964	4	9.333	6,7%	7,4%	76,6%
⊕ Non Movers			30,00%	12	-	112.568	0	-	-	-	-
TOTAL			100,00%	40	707.971	957.851	10	65.710	7,77%	7,4%	85,6%

Market Benchmark

Manufaturas	%SKUs	SKUs Qty	Sales (R\$)	Inventory (R\$)	Turns	Margin (R\$)	Margin/Average Inventory	Out-of-stock	OSA
My Company	12,50%	5	551.569	520.897	13	33.695	6,4%	2,4%	86,5%
Competitor	21,15%	5	191.293	196.253	22	20.209	10%	2,7%	94,4%

Focus on impact
in all links

Information to
guide right actions



30%

*is the average excess inventory
reduction and out-of-stock reduction
for our customers, including:*



 **Electrolux**

 **Whirlpool**
CORPORATION

Coca-Cola
Vonpar



PEPSICO

ambev

GOMB

G goldratt
CONSULTING

Case Study

*numbers are in thousands of dollars

Supply According to Consumption	Retail Chain	Inventory on-hand	Annual Sales	Inventory Turns
	A	701	24.321	34,69
	B	362	6.504	17,99
	C	306	5.252	17,19
	D	3.514	50.119	14,26
	E	939	11.956	12,74
	F	12.262	150.516	
	Total	18.083	248.668	13,75

Push System	Retail Chain	Inventory on-hand	Annual Sales	Inventory Turns
	G	1.064	14.112	13,26
	H	5.762	68.893	11,96
	I	708	5.389	7,61
	J	915	6.609	7,22
	K	1.889	12.867	6,81
	L	12.686	85.750	6,76
	M	6.513	32.696	5,02
	N	12.758	62.479	4,90
	O	20.191	91.310	4,52
	P	21.086	71.684	
	Total	83.572	451.789	7,15



In conclusion...

*“Releasing organizations
from their ORTHODOXIES is
the REAL challenge.”*

Miguel Abuhab

FROM SELL-IN
TO SELL-OUT
Thank You!



Miguel Abuhab
NeoGrid Founder and CEO

